



November 14, 2024

#4D24381

Ms. Sarah Foreman
Solid Waste Permitting – Engineering Design Unit
Solid Waste & Materials Management Program
Hazardous Materials & Waste Management Division
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive S.,
Denver, CO 80246
Sarah.Foreman@state.co.us
(720) 251-4841

RE: Twin Enviro Milner Landfill: Work Plan for Phase Two Piezometer Installation

Dear Ms. Foreman:

In anticipation of Phase 2 construction at the Milner Landfill, Twin Enviro is planning on installing several piezometers in the area. These additional piezometers should allow for a more nuanced estimate of groundwater elevations in the Phase 2 area. This brief work plan outlines the intended installation locations and details.

The locations were chosen primarily to fill in gaps in the groundwater elevation data collected from the permanent monitoring wells. Additionally, these locations were chosen to generally be accessible all year, not interfere with the horseshoe dewater sump, and not be disturbed by clay mining operations.

Six piezometers are proposed to be installed in Phase 2. Enclosed Figure 1 displays proposed, approximate piezometer locations. Borings for piezometers will be drilled to refusal or ten feet beyond the depth at which the uppermost groundwater is noted. Each boring will be continuously logged for lithology and any other relevant observations. The piezometers will be constructed with Schedule 40 two-inch PVC piping. The screened interval will be dictated by the onsite technician, but in general, it is expected that the screened interval will extend for twenty feet above the bottom of the boring, which should place approximately ten feet of screen below and ten feet above the water table. The screened interval will be constructed using 0.010 slot screen or a similar replacement product. 10-20 silica sand will be placed in the bore annulus from the bottom of the boring and extending approximately two feet above the screened interval and will be sealed with bentonite. The rest of the screened interval may be backfilled with drill cuttings and sealed with bentonite at the surface. Well covers will be placed over the well stick-up with concrete collars as appropriate.

Figure 1 displays the proposed locations and anticipated piezometer depths. The depths were estimated using the potentiometric surface calculated using groundwater elevations recorded during the October 2024 groundwater monitoring event.

Drilling for these proposed piezometers is currently scheduled for the first week of December 2024. Please contact us with any questions or comments you may have.

Sincerely,

MILLER ENGINEERS, INC. d/b/a
SOUDER, MILLER & ASSOCIATES

Graham Cottle

Graham Cottle
Project Engineer
Graham.Cottle@soudermiller.com

Enc: Figure 1

*XC: Scott Cowman, Director – Routt County Environmental Health Department
Alan Goldich – Rout County Planning Department
Rebecca Lindeman, PE – Jardon Engineering & Inspections LLC*

